M. A. R. 57 (Rule 116) **No. D** 66530

Measurement Book

1st & Final bill

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Sri. R. Mangal Raj.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work :-	Improvements to main and cross Roads at Selection corner area & Santhosh nagar (Balance area), in ward no. 13 Shettyhalli Sub division.					
	Job code :-	013-16-000034					
	A. A :-	EE/DD/AS/21/16-17.			Dt :- 15/07/2016		
	T. S :-	CE/DZ/TS/35/16-17.			Dt :- 21/07/2016.		
	Work Order :-	EE/DD/WO/128/16-17			Dt :- 23/02/2017.		
	Est Cost :-	Rs. 75.00 Lakhs.					

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1.	Earthwork excavation by manual means in ordinary soil involving in average horizontal through upto 2m. and an average lift upto 1.5m, excavated surface levelled & sides neately dressed, the disposed earth to be levelled neatly after breaking of clods. It is completed as per specification.						
	Vide Qty MB No-5676/16-17 Pg # - 567589					558.76 cum	
			@ Rs. 82.91/cum			—	Rs. 46326=00
2.	Providing and laying in position plain cement concrete of nominal mix M10. With OPC cement @ 220 kgs, with 40mm and down size graded granite metal course aggregates machine						

M. A. R. 57 (Rule 116) No. D

Measurement Book

66531

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labours, HOM Machinery. It is completed as per specification.						
	Vide Qty MB No-5676/16-17 Pg # - ~~109.68~~ 567590					109.68 cum	
			@ Rs. 5124.52/cum			—	Rs. 562057=00
3.	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and downsize graded granite metal, coarse aggregates @ 0.69 cum						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and fine aggregates at 0.460 cum, with super plasticizers @ 3l. confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation. It is completed as per specification. Vide Qty MB No- 5676/16-17 Pg # 567598					283.57 cum	
						Qty limited to ~~282.57~~ 282.57 cum	
						@ Rs. 6065.09/cum	Rs. 1713812=00
4.	providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete RMC M20 for RCC works laid in 15cm thick layers and						

M. A. R. 57 (Rule 116)
Measurement Book

No. D 66532

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	well compacted vibrating, curing, for raft foundation column footing Main & secondary beams with all lead & lift. It is completed as per specification.						
	4th cross, prashanth ngr	1x	30.00x	$\frac{5.0+4.5}{2}$	$\times \frac{0.15+0.17}{0.20}$	28.50 22.80	
		1x	30.00x	$\frac{4.5+5.0}{2}$	$\times \frac{0.15+0.18}{0.20}$	28.50 23.51	
		1x	30.00x	$\frac{5.0+5.0}{2}$	$\times \frac{0.15+0.18}{0.20}$	30.00 24.75	
		1x	30.00x	$\frac{5.0+5.1}{2}$	$\times \frac{0.15+0.18}{0.20}$	30.30 24.99	
		1x	30.00x	$\frac{5.1+5.4}{2}$	$\times \frac{0.15+0.18}{0.20}$	31.50 25.98	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					0.15 to 0.18	25.74	
		1x	30.00x	$\frac{5.4+5}{2}$	x 0.20	31.20	
					0.15 to 0.18	35.86	
		1x	30.00x	$\frac{5.0+5.4}{2}$	x 0.20	31.32	
					0.15 to 0.18		
		1x	6.00x	$\frac{5.45+5.25}{2}$	x 0.20	6.42	4.97
	cross Road from 4th cross				0.15 to 0.18		
		1x	25.00x	$\frac{4.9+5.0}{2}$	x 0.20	24.75	20.41
					0.16 to 0.18		
		1x	30.00x	$\frac{5.9+5.9}{2}$	x 0.20	35.40	29.20
		1x	5.00x	5.90	x 0.16	5.90	4.72
	vide qty pg # 66550 damaged Road portion					(+) 62.17	cum
					295.10	283.74	cum 1828480=00
			@ Rs.	6196.14/m³		—	Rs. 1758402=00

5. providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position,

M. A. R. 57 (Rule 116) No. D
Measurement Book

66533

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary. It is completed as per specification.						
	vide Qty MB No - 5676/16-17.					172.62	Qtls
	Pg # 567582						
			@ Rs.	6830.76/Qtl		—	Rs. 1179126=00

6. providing and removing centering, shuttering, proping etc, and removal of form work for vertical surface such as walls at any thickness,

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including attached pilasters, buttresses, plinth and string courses cost of all materials, labour. It is completed as per specification. vide qty MB No. 5676/16-17. Pg # 567595					2136.90 sqm	
						Qty limited to 2128.40 sqm	
					@ Rs. 300.14/m²	—	Rs. 638817=00
7	Providing & laying reinforced cement precast slabs of mix CC 1:1½:3 using 20mm & down size graded granite metal using HYSD 10mm dia steel @ 100mm c/c both ways. It is completed as per specification						
		35	0.90	0.60		18.90	
		30	0.90	0.60		16.20	

M. A. R. 57 (Rule 116)
Measurement Book

No. D 66534

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		30	0.90	0.60		16.20	
						51.30	sqm
					@ Rs. 1595.20/sqm	—	Rs. 81833=00
8.	Earthwork excavation by manual means in ordinary soil in average horizontal through upto 2m & an average lift upto 1.5m, excavated surface levelled & sides neately dressed, the disposed earth to be neately dressed after breaking of clods. It is completed as per specification.						

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MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Vide Qty P/M pg# 66551					72.00	cum
			@ Rs. 48.45/cum			—	Rs. 3488=00
9.	providing, laying, spreading and compacted graded stone aggre-gates to wet mix macadam specifications including pre mixing the material with water @ OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub base/ base course on well prepared surface it is completed as per specification					48.00	m^3
	Vide Qty pg # 66552		@ Rs 1708.82/cum			—	Rs. 82023=00

M. A. R. 57 (Rule 116) No. D 66535
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc. of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
10.	Providing and applying primer coat with S.S Bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.6 kg/m² using mechanical means. It is completed as per specification.					240.00	Sqm
	Vide Qty pg # 66553		@ Rs. 32.30/Sqm			—	Rs. 7752=00
11.	cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or						

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